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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/225,388	01/05/1999	DAVID W SMITH	2000.002500	2528	
	7590 06/18/200 IORGAN & AMERSO	EXAMINER			
	OND, SUITE 1100	NGUYEN, TOAN D			
100510N, 12	X //042		ART UNIT	PAPER NUMBER	
			2416		
			MAIL DATE	DELIVERY MODE	
			06/18/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.		Applicant(s)					
		09/225,388		SMITH, DAVID W					
Office Action Summary			Examiner		Art Unit				
			TOAN D. NO		2416				
Period fo	The MAILING DATE of this commu or Reply	nication appe	ears on the c	over sheet with the o	correspondence a	ddress			
WHIC - Exter after - If NC - Failu Any (ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MASSIONS OF THE MASSIONS OF THE MONTHS FROM THE MASSION OF THE MONTHS FROM THE MASSION OF THE MONTHS FROM THE MONTH THE	MAILING DA's of 37 CFR 1.136 munication. tatutory period will y will, by statute, c	TE OF THIS 6(a). In no event Il apply and will ecause the applica	S COMMUNICATION, however, may a reply be tin expire SIX (6) MONTHS from the become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).				
Status									
1)⊠	Responsive to communication(s) file	ed on <i>17 Ma</i>	rch 2009						
•		2b)⊠ This a		n-final.					
3)	Since this application is in condition	<i>7</i> —			secution as to th	e merits is			
- ,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)🛛	☑ Claim(s) <u>1-35</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	Claim(s) is/are allowed.								
6)⊠	S)⊠ Claim(s) <u>1-6,8-18,20-28 and 30-35</u> is/are rejected.								
7)🛛	Claim(s) 7,19 and 29 is/are objected	d to.							
8)	Claim(s) are subject to restri	ction and/or	election req	uirement.					
Applicati	on Papers								
9)	The specification is objected to by the	ne Examiner.							
10)🛛	The drawing(s) filed on <u>21 Novemb</u> e	<u>er 2002</u> is/are	е: а)⊠ асс	epted or b) <mark>□</mark> object	ed to by the Exar	miner.			
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including	g the correctio	n is required	if the drawing(s) is ob	jected to. See 37 C	FR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority ι	ınder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
Attachmen 1) ⊠ Notic	t(s) e of References Cited (PTO-892)		4)	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date. Notice of Informal Patent Application									
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:									

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DETAILED ACTION

1. In view of the Appeal Brief filed on 3/17/09, PROSECUTION IS HEREBY REOPENED. A Non-final Office action is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
- (2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below:

Claim Objections

2. Claim 10 is objected to because of the following informalities:

Claim 10, line 11, it is suggested to change "based_upon a content of_said data signal" to --- based upon a content of said data signal ---.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. Claims 23-31 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which

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was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Regarding claim 23, the limitation "A computer readable program" was claimed.

No support for this feature could be found in the original specification.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-2, 9, 23-24, 31-32 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over McKaughan et al. (US 5,802,305) in view of Tietjen et al. (US 4,683,534).

For claim 1, McKaughan et al. disclose system for remotely waking a sleeping computer in power down state by comparing incoming packet to the list of packets storing on network interface card comprising:

receiving a set of data signals from an external data source (figure 4, col. 8, lines 45-47);

decoding said received set of data signals (col. 8, lines 47-50);

extracting a destination address from said set of data signals (col. 8, lines 47-50);

comparing said destination address extracted from said data signals to a known data value (col. 8, lines 52-54);

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determining whether said received data signals should be received by a host circuitry based upon said comparison of said destination address extracted from said data signals to a known data value (col. 8, lines 54-58);

generating at least one status signal alerting said host circuitry of said determination that said received data signals should be received by said host circuitry (col. 8, lines 59-64); and

waking up said host circuitry from a sleep mode upon a determination that said received set of data is addressed to said host circuitry (figure 4, col. 8, lines 59-64).

However, McKaughan et al. does not expressly disclose detecting a size of said received set of data signals to use as a factor for decoding said data. In an analogous art, Tietjen et al. disclose detecting a size of said received set of data signals to use as a factor for decoding said data (col. 3, lines 2-5).

One skilled in the art would have recognized the detecting a size of said received set of data signals, and would have applied Tietjen et al.'s size decoder 18 in McKaughan et al.'s detects an incoming packet over the network. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention, to use Tietjen et al.'s method and apparatus for interfacing buses of different sizes in McKaughan et al.'s system for remotely waking a sleeping computer in power down state by comparing incoming packet to the list of packets storing on the network interface card with the motivation being to provide a size select signal (col. 3, line 3).

For claims 2 and 24, McKaughan et al. disclose set of data signal received is data packet that is in a serial data format, over a network line (col. 8, lines 45-47).

For claims 9 and 31, McKaughan et al. disclose wherein said method of waking up said host circuitry further comprises generating a status signal alerting said host that a address match has been found (figure 4, col. 8, lines 59-62).

As far as understood with respect to claim 23, McKaughan et al. disclose system for remotely waking a sleeping computer in power down state by comparing incoming packet to the list of packets storing on network interface card comprising:

receiving a set of data signals from an external data source (figure 4, col. 8, lines 45-47);

decoding said received set of data signals (col. 8, lines 47-50);
extracting a destination address from said set of data signals (col. 8, lines 47-50);
comparing said destination address extracted from said data signals to a known
data value (col. 8, lines 52-54);

determining whether said received data signals should be received by a host circuitry based upon said comparison of said destination address extracted from said data signals to a known data value (col. 8, lines 54-58);

generating at least one status signal alerting said host circuitry of said determination that said received data signals should be received by said host circuitry (col. 8, lines 59-64); and

waking up said host circuitry from a sleep mode upon a determination that said received set of data is addressed to said host circuitry (figure 4, col. 8, lines 59-64).

However, McKaughan et al. does not expressly disclose detecting a size of said received set of data signals to use as a factor for decoding said data. In an analogous

art, Tietjen et al. disclose detecting a size of said received set of data signals to use as a factor for decoding said data (col. 3, lines 2-5).

One skilled in the art would have recognized the detecting a size of said received set of data signals, and would have applied Tietjen et al.'s size decoder 18 in McKaughan et al.'s detects an incoming packet over the network. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention, to use Tietjen et al.'s method and apparatus for interfacing buses of different sizes in McKaughan et al.'s system for remotely waking a sleeping computer in power down state by comparing incoming packet to the list of packets storing on the network interface card with the motivation being to provide a size select signal (col. 3, line 3).

For claim 32, McKaughan et al. disclose system for remotely waking a sleeping computer in power down state by comparing incoming packet to the list of packets storing on network interface card comprising:

receiving a data signal (figure 4, col. 8, lines 45-47);

extracting said destination address based upon said data signal to determine whether a host circuitry is being addressed by comparing said destination address to a predetermined address; (col. 8, lines 47-54); and

waking up a host circuitry from a sleep mode based upon said determination that said host circuitry is being addressed (figure 4, col. 8, lines 59-64).

However, McKaughan et al. does not expressly disclose detecting a size of said received set of data signals to use as a factor for extracting a destination address. In an

analogous art, Tietjen et al. disclose detecting a size of said received set of data signals to use as a factor for extracting a destination address (col. 3, lines 2-7).

One skilled in the art would have recognized the detecting a size of said received set of data signals, and would have applied Tietjen et al.'s size decoder 18 in McKaughan et al.'s detects an incoming packet over the network. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention, to use Tietjen et al.'s method and apparatus for interfacing buses of different sizes in McKaughan et al.'s system for remotely waking a sleeping computer in power down state by comparing incoming packet to the list of packets storing on the network interface card with the motivation being to provide a size select signal (col. 3, line 3).

For claim 34, McKaughan et al. disclose system for remotely waking a sleeping computer in power down state by comparing incoming packet to the list of packets storing on network interface card comprising:

receive a data signal (figure 4, col. 8, lines 45-47);

extract said destination address based upon said data signal to determine whether a host circuitry is being addressed by comparing said destination address to a predetermined address; (col. 8, lines 47-54);and

wake up a host circuitry from a sleep mode based upon said determination that said host circuitry is being addressed (figure 4, col. 8, lines 59-64).

However, McKaughan et al. does not expressly disclose detecting a size of said received set of data signals to use as a factor for extracting a destination address. In an

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analogous art, Tietjen et al. disclose detecting a size of said received set of data signals to use as a factor for factor for extracting a destination address (col. 3, lines 2-7).

One skilled in the art would have recognized the detecting a size of said received set of data signals, and would have applied Tietjen et al.'s size decoder 18 in McKaughan et al.'s detects an incoming packet over the network. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention, to use Tietjen et al.'s method and apparatus for interfacing buses of different sizes in McKaughan et al.'s system for remotely waking a sleeping computer in power down state by comparing incoming packet to the list of packets storing on the network interface card with the motivation being to provide a size select signal (col. 3, line 3).

6. Claims 3-6, 8, 10-18, 20-22, 25-28, 30, 33 and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over McKaughan et al. (US 5,802,305) in view of Tietjen et al. (US 4,683,534) further in view of Warren et al. (US 4,516,201).

For claims 3-6, 8, 25-28, 30 and 33, McKaughan et al. in view of Tietjen et al. do not expressly disclose:

converting said serial data packet into a parallel data format;

extracting a word clock from said received data packet;

incrementing a member held by said counter, said word clock generating a word count;

inputting said converted parallel format data into a plurality of comparators; using said word count to address data stored in a memory circuitry; and

inputting a set of data signals from said memory circuitry into an appropriate comparator.

In an analogous art, Warren et al. disclose:

converting said serial data packet into a parallel data format (figure 2, col. 8, lines 23-28);

extracting a word clock from said received data packet (figure 5, col. 14, lines 14-16);

incrementing a member held by said counter, said word clock generating a word count (figure 6, col. 16, lines 1-52);

inputting said converted parallel format data into a plurality of comparators (figure 8, col. 23, lines 38-68);

using said word count to address data stored in a memory circuitry (col. 23, lines 3-5); and

inputting a set of data signals from said memory circuitry into an appropriate comparator (figure 8, col. 23, lines 38-68).

Warren et al. disclose further wherein said act of extracting a destination address from said set of data signals further comprises slicing said parallel data such that at least one destination address data word is generated (col. 8, lines 23-28 as set forth in claims 4 and 26); performing a comparison function upon said converted, parallel set of data signals, and said set of data from said memory circuitry (figure 8, col. 23, lines 38-68), generating a digital comparator status signal in response of said performance of comparator function; and clocking in said digital comparator data signal into a register

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(figure 8, col. 23, lines 27-68 as set forth in claims 5 and 27); determining whether said received data signals should be received by a host circuitry further comprises latching all output of said plurality of comparators into a digital logic circuitry (figure 2, col. 8, lines 23-28 as set forth in claims 6 and 28); performing an OR function upon all said latched output of said comparator (figure 7, col. 21, lines 33-38 as set forth in claims 8 and 30).

One skilled in the art would have recognized the converting said serial data packet into a parallel data format, and would have applied Warren et al.'s serial-to-parallel converter in McKaughan et al.'s detects an incoming packet over the network. Therefore, it would have been obvious to one of ordinary skill in the art at the time invention, to use Warren et al.'s multipled data communications using a queue in a controller in McKaughan et al.'s system for remotely waking a sleeping computer in power down state by comparing incoming packet to the list of packets storing on the network interface card with the motivation being to turn its serial input into selectably 5-bit or 8-bit parallel words (col. 8, lines 25-26).

McKaughan et al. disclose a plurality of comparators (figure 3, references 23 and 25, col. 5, lines 25-26).

For claims 10-18, 20-22 and 35, McKaughan et al. disclose system for remotely waking a sleeping computer in power down state by comparing incoming packet to the list of packets storing on network interface card, comprising:

means for receiving a data signal (figure 4, col. 8, lines 45-47); a counter (col. 6, line 43);

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a host circuitry interface capable of transmitting and receiving data from a host circuitry, said host circuitry enter a wake up state from a sleep mode based upon decoded address data received by said host circuitry, said decoded address data being base upon a content of said data signal and said size of said received data signals (figure 1, col. 6, lines 26-29);

a memory circuitry (figure 2, col. 6, lines 42-03);

a plurality of comparators (figure 8, col. 23, lines 38-68);

a mask circuitry (col. 8, line 48).

However, McKaughan et al. does not expressly disclose means for detecting a size of said received data signals. In an analogous art, Tietjen et al. disclose detecting a size of said received data signals (col. 3, lines 2-5).

One skilled in the art would have recognized the detecting a size of said received data signals, and would have applied Tietjen et al.'s size decoder 18 in McKaughan et al.'s detects an incoming packet over the network. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention, to use Tietjen et al.'s method and apparatus for interfacing buses of different sizes in McKaughan et al.'s system for remotely waking a sleeping computer in power down state by comparing incoming packet to the list of packets storing on the network interface card with the motivation being to provide a size select signal (col. 3, line 3).

However, McKaughan et al. in view of Tietjen et al. do not expressly disclose:

a data formatter;

a clock divider;

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a digital logic circuitry;

a plurality of status registers and a plurality of clocked registers. In an analogous art, Warren et al. disclose:

a data formatter (figure 1, col. 6, lines 37-42);

a clock divider (col. 30, line 49);

a digital logic circuitry (figure 2, col. 8, lines 23-28);

a plurality of status registers and a plurality of clocked registers (figure 10, col. 30, lines 18-64).

Warren et al. disclose further formatter comprises of a serial to parallel converter and a data end detector that are capable of converting a serial stream of data into parallel data words and detecting an end of a data stream (figure 2, col. 8, lines 10-37 as set forth in claim 11); memory circuitry comprises of a memory element and a memory data access logic (figure 7, col. 12, lines 20-29 as set forth in claims 13 and 14); memory data access logic is coupled with said host interface such that data can be sent to and retrieved from said memory elements (figure 2, col. 8, lines 3-24 as set forth in claims 15 and 22); and comparators are coupled with said data formatter such that said comparators receive parallel formatted data from said data formatter (figure 8, col. 23, lines 38-68 as set forth in claims 16-18 and 20-21).

One skilled in the art would have recognized a data formatter, and would have applied Warren et al.'s data formatter in McKaughan et al.'s detects an incoming packet over the network. Therefore, it would have been obvious to one of ordinary skill in the art at the time invention, to use Warren et al.'s multipled data communications using a

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queue in a controller in McKaughan et al.'s system for remotely waking a sleeping computer in power down state by comparing incoming packet to the list of packets storing on the network interface card with the motivation being to provide the host with status information concerning the data link, to inform the host, to take action when predetermined characters are received, to automatically generate the protocol characters required when transmitting and eliminate such characters when receiving (col. 6, lines 43-48).

Allowable Subject Matter

7. Claims 7, 19 and 29 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TOAN D. NGUYEN whose telephone number is (571)272-3153. The examiner can normally be reached on M-F (7:00AM-4:30PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on 571-272-7872. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/T. D. N./ Examiner, Art Unit 2416

/William Trost/
Supervisory Patent Examiner, Art Unit 2416